



2811

DOCKET NO.: H0498.70154US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Charles M. Lieber et al.
Serial No: 09/935,776
Confirmation. No.: 8935
Filed: August 22, 2001
For: DOPED ELONGATED SEMICONDUCTORS, GROWING SUCH SEMICONDUCTORS, DEVICES INCLUDING SUCH SEMICONDUCTORS AND FABRICATING SUCH DEVICES
Examiner: HU, Shouxiang
Art Unit: 2811

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 8 day of September, 2003.

Signature

Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith are the following documents:

Information Disclosure Statement
 PTO Form 1449 with cited references
 Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 720-3500, Boston, Massachusetts.

A check is not enclosed. If a fee is required, the Commissioner is hereby authorized to charge Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted,
Charles M. Lieber et al., Applicants

By:

Timothy J. Oyer, Ph.D., Reg. No.: 36,628
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Docket No. H0498.70154US00
Date: September 8, 2003

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Colleen F. Sullivan
Signature

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

STATEMENT FILED PURSUANT TO THE DUTY OF
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

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PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed before the mailing date of a first Office Action on the merits in the above-identified case.

No fee or certification is required.

PART II: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The following co-pending application that may contain subject matter related to this application is enclosed unless the earlier application is identified herein and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>	<u>Attorney Docket No.</u>
10/020,004	12/11/01	Charles M. Lieber	H0498.70164US00
10/196,337	07/16/02	Charles M. Lieber et al.	H0498.70187US00

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

Conf. No.: 8935

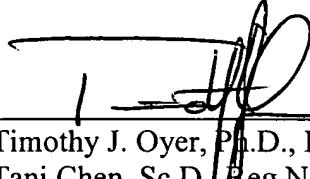
By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted,
Charles M. Lieber et al., Applicants

By: 
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Docket No. H0498.70154US00

Date: September 8, 2003

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FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 09/935,776	ATTY. DOCKET NO.: H0498.70154US00	
				FILING DATE:	August 22, 2001	CONFIRMATION NO.: 8935
				APPLICANT:	Charles M. Lieber et al.	
				GROUP ART UNIT:	2811	EXAMINER: HU, Shouxiang
Sheet	1	of	2			

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
	A1.	5,274,602		Glenn	12-28-1993
	A2.	5,620,850		Bamdad et al.	04-15-1997
	A3.	5,830,538		Gates et al.	11-03-1998
	A4.	5,858,862		Westwater et al.	01-12-1999
	A5.	5,897,945		Lieber et al.	04-27-1999
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	A7.	5,942,443		Parce et al.	08-24-1999
	A8.	5,997,832		Lieber et al.	12-07-1999
	A9.	6,036,774		Lieber et al.	03-14-2000
	A10.	6,038,060		Crowley	03-14-2000
	A11.	6,060,724		Flory et al.	05-09-2000
	A12.	6,069,380		Chou et al.	05-30-2000
	A13.	6,123,819		Peeters	09-26-2000
	A14.	6,128,214		Kuekes et al.	10-03-2000
	A15.	6,143,184		Martin et al.	11-07-2000
	A16.	6,149,819		Martin et al.	11-21-2000
	A17.	6,203,864	B1	Zhang et al.	03-20-2001
	A18.	6,207,392	B1	Weiss et al.	03-27-2001
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	A21.	6,346,189	B1	Dai et al.	02-12-2002
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	A23.	2002/0179434	A1	Dai et al.	12-05-2002

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office / Country	Number	Kind Code			
	B1.	EP	1 087 413	A2	Lucent Technologies, Inc.	03-28-2001	
	B2.	WO	02/48701	A2	President and Fellows of Harvard College	06-20-2002	
	B3.	WO	03/005450	A2	President and Fellows of Harvard College	01-16-2003	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
	C1.	CUI ET AL., "Nanowire nanosensors for highly sensitive and selective detection of biological and chemical species", <i>Science</i> , August 17, 2001, vol. 293, pp. 1289-1292	

SEP 1 1 2003 PATENT & TRADES	C2.	DUAN ET AL. "Nanoscale electronic and optoelectronic devices assembled from indium phosphide nanowire building blocks", supplementary article, <i>Nature</i> , 2001, vol. 409, pp. 66-69	
	C3.	GUDIKSEN ET AL., "Growth of nanowire superlattice structures for nanoscale photonics and electronics", <i>Nature</i> , 2002, vol. 415, pp. 617-620	
	C4.	HARAGUCHI ET AL., "Polarization dependence of light emitted from GaAs p-n junctions in quantum wire crystals", <i>Journal of Applied Physics</i> , April 1994, vol. 75, no. 8, pp. 4220-4225	
	C5.	HUANG ET AL., "Logic gates and computation from assembled nanowire building blocks", <i>Science</i> , 2000, vol. 287, pp. 624-625	
	C6.	KANJANACHUCHAI ET AL., "Coulomb blockade in strained-Si nanowires on leaky virtual substrates", <i>Semiconductor Science and Technology</i> , 2001, vol. 16, pp. 72-76	
	C7.	KONG ET AL. "Nanotube molecular wires as chemical sensors", <i>Science</i> , January 28, 2000, vol. 287, pp. 622-625	
	C8.	LAHOUN ET AL., "Epitaxial core-shell and core-multishell nanowire heterostructures", <i>Nature</i> , 2002, vol. 420, pp. 57-61	
	C9.	STAR ET AL., "Preparation and properties of polymer-wrapped single-walled carbon nanotubes", <i>Angew. Chem. Int.</i> , 2001, vol. 40, no. 9, pp. 1721-25	
	C10.	WANG ET AL., "Highly polarized photoluminescence and photodetection from single indium phosphide nanowires", <i>Science</i> , 2001, vol. 293, pp. 1455-1457	
	C11.	WU ET AL., "Block-by-block growth of single-crystalline Si/SiGe superlattice nanowires", web release date, January 19, 2002, http://pubs.acs.org/hotartcl/nalefd/2002/nl0156888_rev.html	
	C12.	"IBM creates highest performing nanotube transistors", IBM News, 2002	

EXAMINER	DATE CONSIDERED
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#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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